

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number  
**WO 2005/074981 A3**

(51) International Patent Classification<sup>7</sup>: **C12N 15/11**,  
A61K 31/7088, A61P 25/00, C07K 14/71, C12Q 1/68,  
G01N 33/50, 33/68

(21) International Application Number:  
PCT/EP2005/001298

(22) International Filing Date: 9 February 2005 (09.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
04002846.6 9 February 2004 (09.02.2004) EP

(71) Applicant and

(72) Inventor: **BOGDAHN, Ulrich** [DE/DE]; Talblick 27,  
93055 Regensburg (DE).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **AIGNER, Ludwig**  
[DE/DE]; Ludwigstrasse 4, 93047 Regensburg (DE).  
**WACHS, Frank, Peter** [DE/DE]; Am Bergacker 26,  
93083 Obertraubling (DE). **WINNER, Beate** [DE/DE];  
Rote Löwenstr. 5a, 93047 Regensburg (DE). **WINKLER,**  
**Jürgen** [DE/DE]; Ludwig-Thoma-Str. 6, 93138 Lappers-  
dorf (DE).

(74) Agent: **ARTH, Hans-Lothar**; Arth, Bucher & Kollegen,  
Am Klopferspitz 19 (IZB), 82152 Munich-Martinsried  
(DE).

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY,  
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,  
ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:  
12 January 2006

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: INHIBITORS OF TGF-R SIGNALING FOR TREATMENT OF CNS DISORDERS

(57) Abstract: The present invention relates to the use of oligonucleotides for the preparation of a pharmaceutical composition for the prevention or treatment of a disease, wherein neurogenesis and/or neuroregeneration has a beneficial effect, in particular a disease like Morbus Alzheimer, Morbus Parkinson, Lewy Body Dementia, Amyotrophic Lateral Sclerosis, Spinocerebellar Atrophies, Creutzfeldt Jakob Disease, Frontotemporal Dementia, Morbus Pick, AIDS Dementia Complex, Vascular Dementia, Progressive Supranuclear Palsy, Corticobasal Degeneration, Multisystem-Atrophy, Hallervorden Spatz Disease, Huntington's disease, Stroke, Traumatic Brain and spinal cord Injury, Retinitis Pigmentosa, Macular Degeneration, Glaucoma, Cochlea Degeneration, Depression, Schizophrenia, Multiple Sclerosis, and developmental neurodegeneration.



WO 2005/074981 A3